PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference F0408PCT				FOR FURTHER AC	CTION	See Form PCT/IPEA/416					
International application No.				International filing date	e (day/month/year)	Priority date (day/month/year)					
PCT/JP2004/010207				16.07.2004	1	18.07.2003					
·	International Patent Classification (IPC) or national classification and IPC										
C10L5/00, C10L5/04, C10L5/16											
01013/00/ 01013/04/ 01013/10											
Applicant											
		A. Yııkı	10								
KATAYAMA, Yukuo											
	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 										
2.	This RI	EPORT consist	ts of a total of	4	sheets, including	this cover sheet.					
3.	This re	port is also acc	ompanied by Al	NNEXES, comprising:							
	a. [(sent to th	e applicant and	to the International Bur	reau) a total of	sheets, as follows:					
		shee	ts of the descrip	otion, claims and/or drav	wings which have been a	mended and are the basis for this report and/or					
	sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).										
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental										
		Box.		_							
	b	sent to th	e International	Bureau only) a total of (indicate type and number	r of electronic carrier(s))					
1						, containing a sequence listing and/or tables					
				r readable form only, as trative Instructions).	s indicated in the Suppler	mental Box Relating to Sequence Listing (see					
4.	This re	port contains i	ndications relati	ing to the following item	ıs:						
[\boxtimes	Box No. I	Basis of the	: report							
[Box No. II	Priority								
[Box No. III	Non-establi	ishment of opinion with	regard to novelty, inventi	ive step and industrial applicability					
[Box No. IV	Lack of unit	ity of invention							
[Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement										
[Box No. VI	Certain doc	cuments cited							
Box No. VII Certain defects in the international applicati					application						
	Box No. VIII Certain observations on the international application										
Date of submission of the demand					Date of completion of thi	is report					
					•	-					
Name and mailing address of the IPEA/JP					Authorized officer						
and		. VI II									
Provided Control					Telephone Ma						
Facsimile	No.				Telephone No.						

Translation

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/010207

Box	x No. I Basis of the report	
1.	With regard to the language, this report is based indicated under this item.	on the international application in the language in which it was filed, unless otherwise
	This report is based on translations from the which is the language of a translation furnity	ne original language into the following language, ished for the purposes of:
	international search (Rule 12.3 and 2	(3.1(b))
	publication of the international appli	cation (Rule 12.4)
	international preliminary examination	n (Rule 55.2 and/or 55.3)
2.		application, this report is based on (replacement sheets which have been furnished to the der Article 14 are referred to in this report as "originally filed" and are not annexed to liled/furnished
	pages	as originally filed/furnished
	pages*	received by this Authority on
	pages*	received by this Authority on
	the claims:	
	nos.	as originally filed/furnished
	nos.*	as amended (together with any statement) under Article 19
	nos.*	· · · · · · · · · · · · · · · · · · ·
	nos.*	
	the drawings:	
	sheets	as originally filed/furnished
	sheets*	
		received by this Authority on
		(s) – see Supplemental Box Relating to Sequence Listing.
3.	The amendments have resulted in the cano	
3.		
	the description, pages	
	the sequence listing (specify):	
	any table(s) related to sequence listing	ng (specify)
4.		me of) the amendments annexed to this report and listed below had not been made, since
7.		the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
	the description, pages	
	the claims, nos.	
	the drawings, sheets/figs	
	the sequence listing (specify):	
	any table(s) related to sequence listi	ng (specify):
*	If item 4 applies, some or all of those sheets ma	y be marked "superseded."

International application No.
PCT/JP2004/010207

Воз		citations and explanations supporting such statement		
1.	Statement			<u> </u>
Novelty (N) Cla		Claims	8-15	YES
		Claims	1-7	NO
	Inventive step (IS)	Claims	•	YES
		Claims	1-15	NO
	Industrial applicability (IA)	Claims	1-15	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

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- Document 1: JP 61-252475 A (Electric Power Development Co.), 10 November 1986; claims 1, 3, 6 and 8; page 7, top right column, table 2; page 9, fig. 3 & US 4702745 A
- Document 2: JP 59-184293 A (Kawasaki Heavy Industries, Ltd.), 19 October 1984; claims (Family: none)

The inventions set forth in claims 1-7 are not novel and do not involve an inventive step in the light of document 1, cited in the international search report.

value for the compacting pressure; however, the compacting pressure to expel water in moisture-containing coal is generally a pressure of the order of several MPa (this application, paragraph [0003]). Part of this compacting pressure can be expected to be transformed into a shear force, and supposing a compacting pressure of 4 MPa, a transformation rate of only 2.5% would generate a shear force 0.1 MPa and satisfy the conditions stipulated in these claims in the present application.

The inventions set forth in claims 8-12 do not

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

involve an inventive step in the light of document 1, cited in the international search report. Adjustment of the moisture content by removal or addition of water is within the ordinary competence of a person skilled in the art.

The inventions set forth in claims 13-15 do not involve an inventive step in the light of documents 1 and 2, cited in the international search report. Document 2 discloses a method wherein heavy tar, which is a form of bitumen, is mixed with dewatered coal (claim 1); so addition of bitumen to the dewatered coal is merely an option available to a person skilled in the art